

Fig. 1

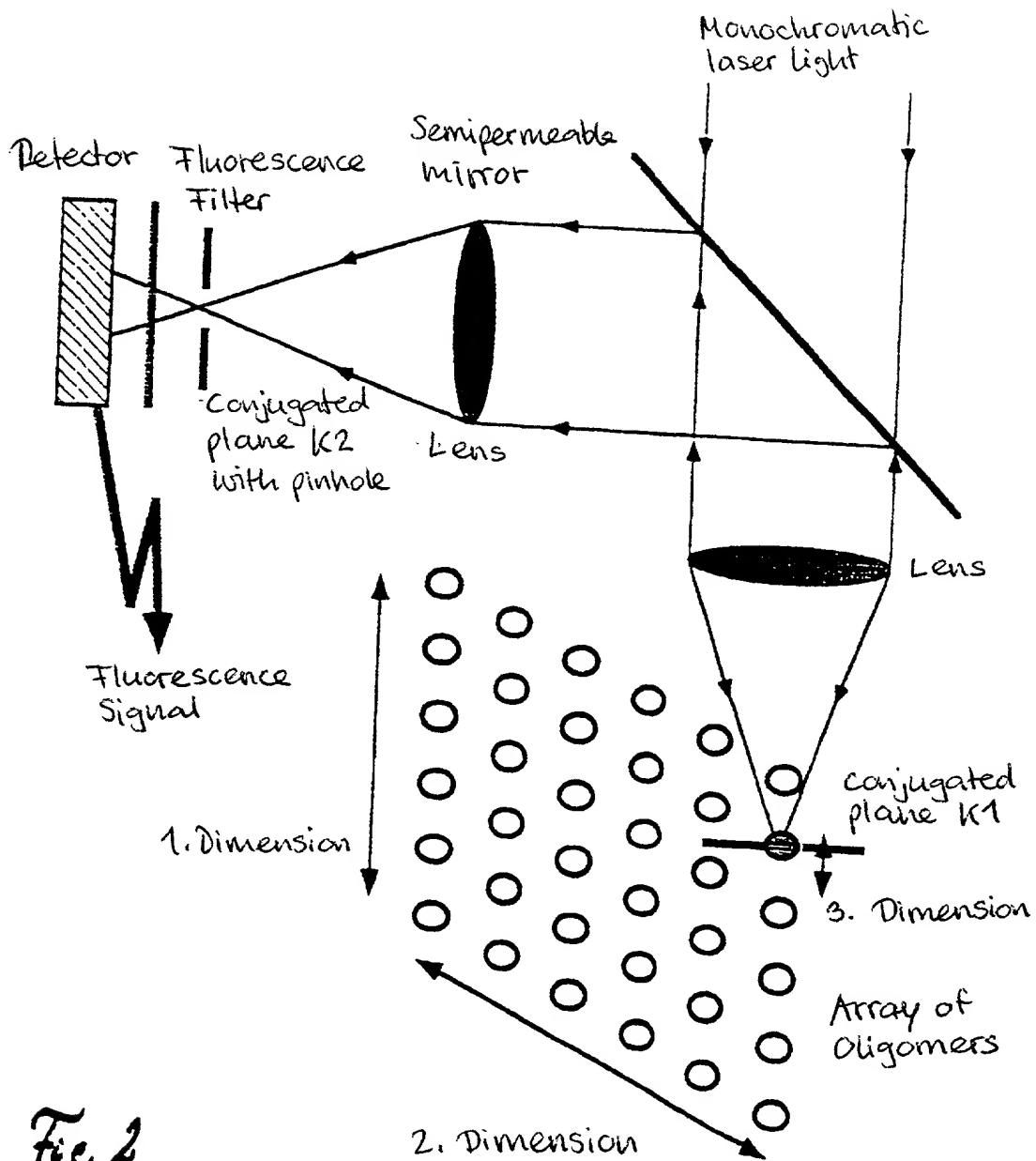


Fig. 2

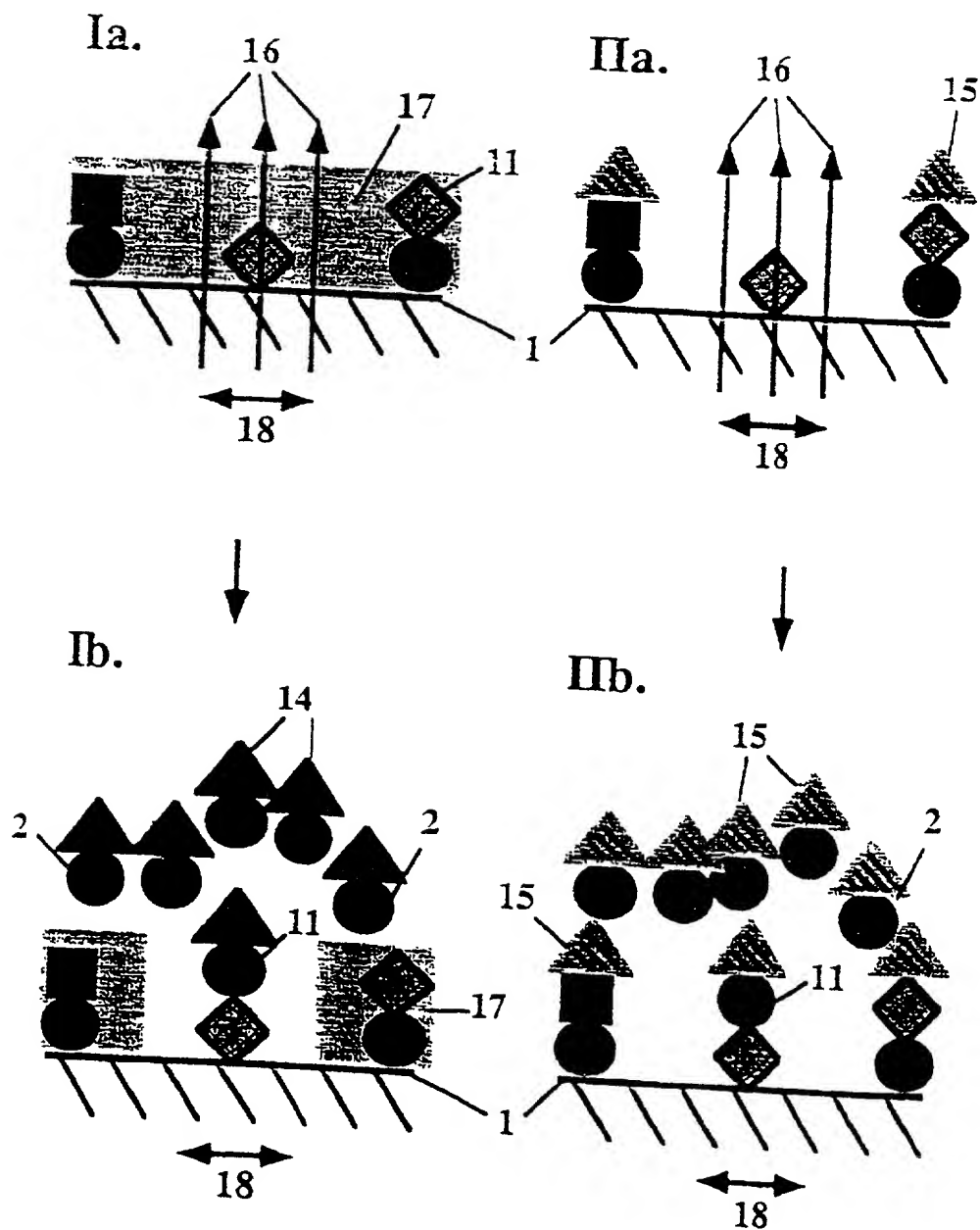


Fig. 3

IX

IX

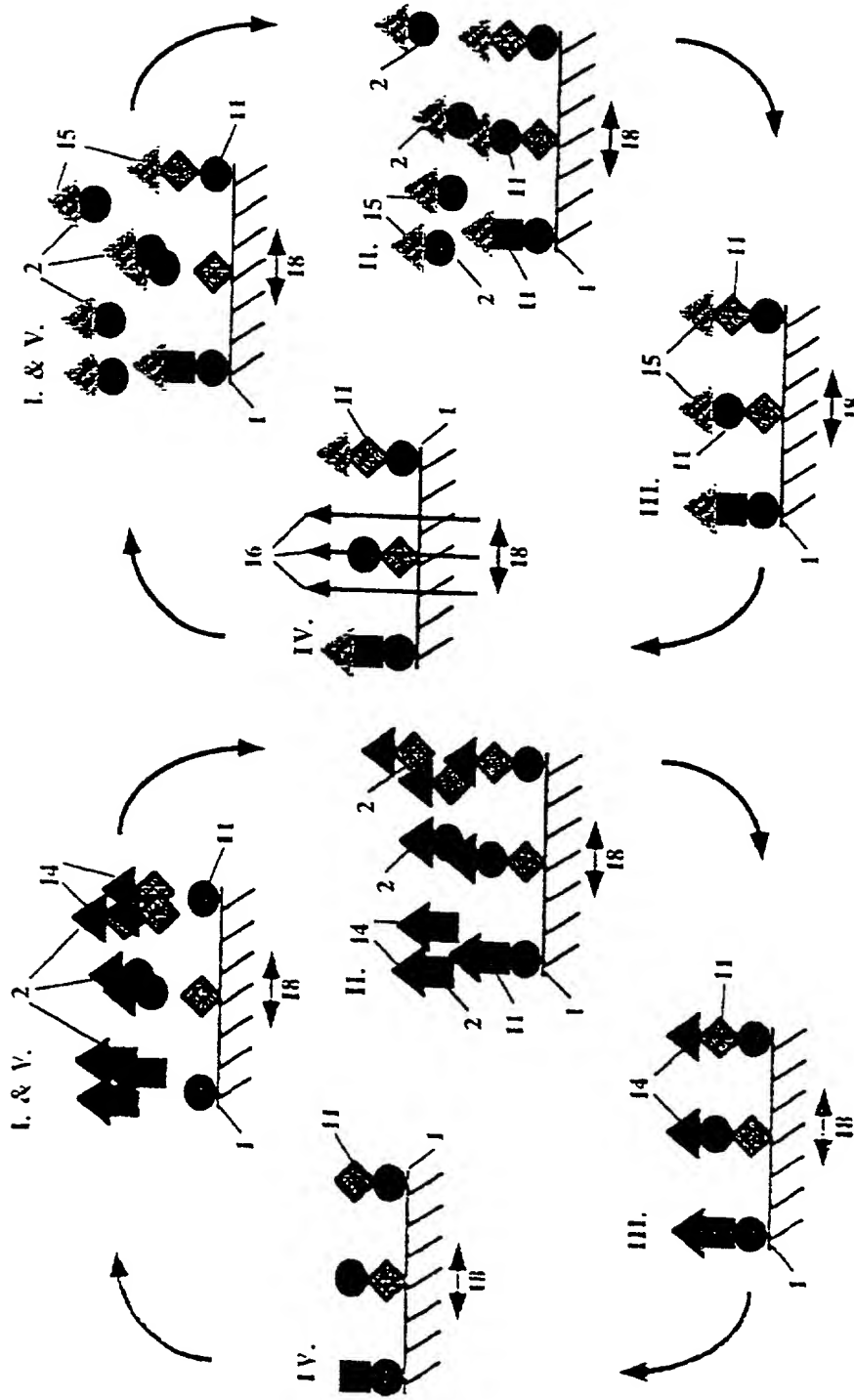


Fig. 4

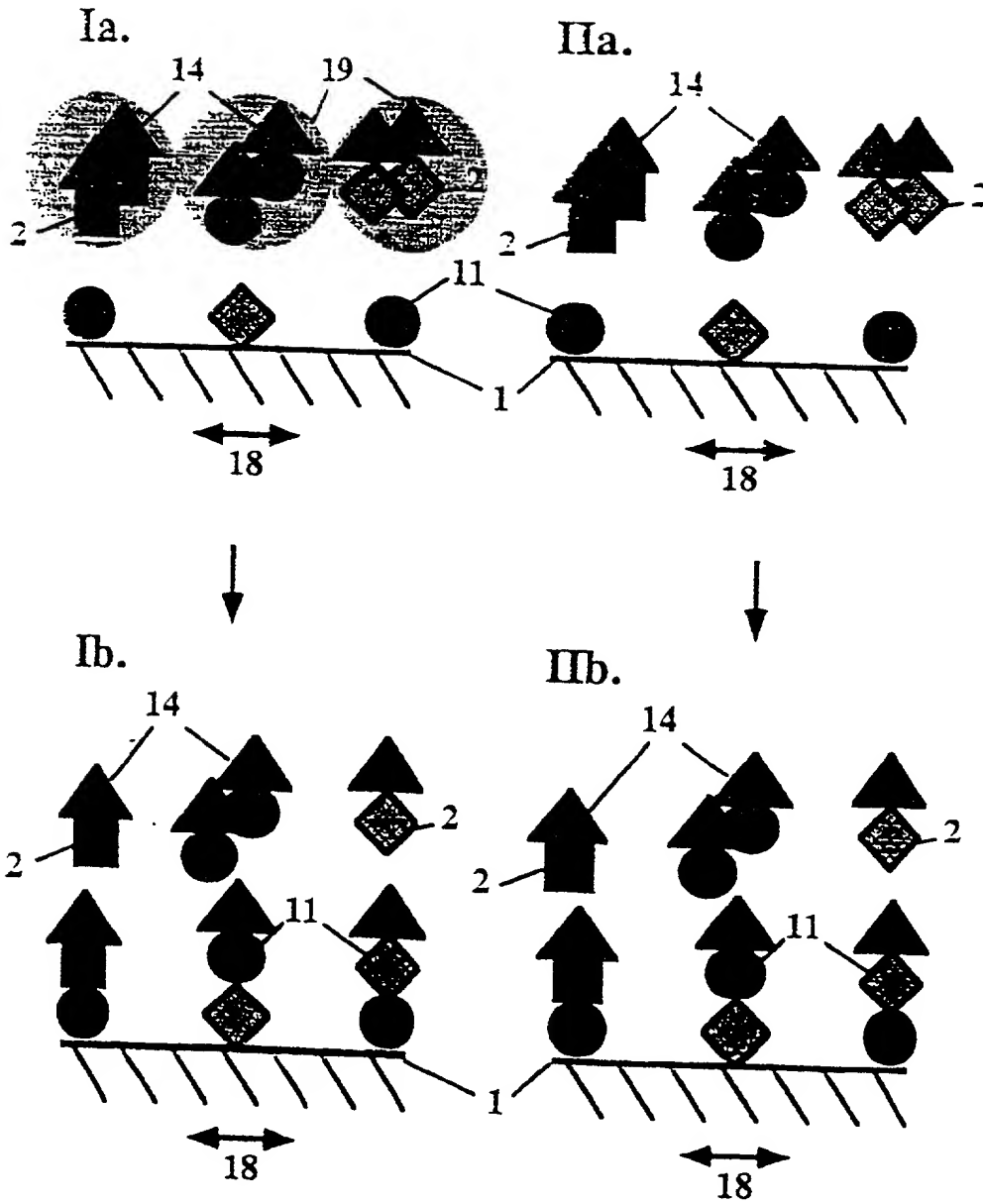
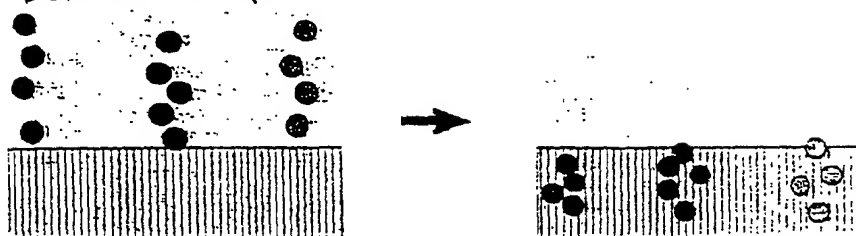


Fig. 5

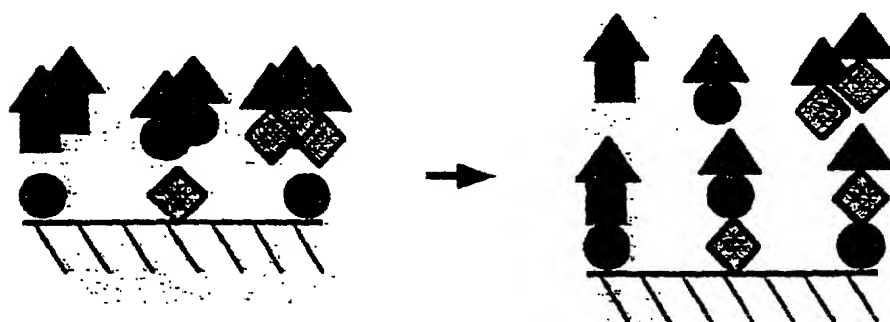
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Demand on spotting of color



- Low diffusion rate of the large chromophors
- Rapidly evaporating solvent
- Absorbent paper

Demand on spotting of monomers for the combinatorial synthesis



- High diffusion rate of small monomers
- Very slowly evaporating solvent

Fig. 6

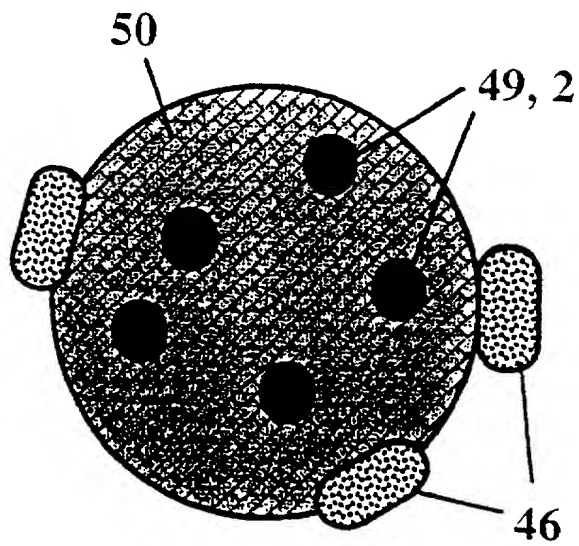
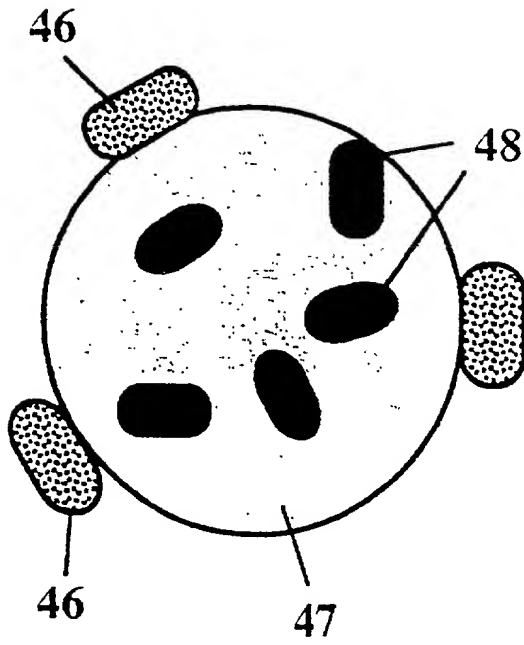


Fig. 7

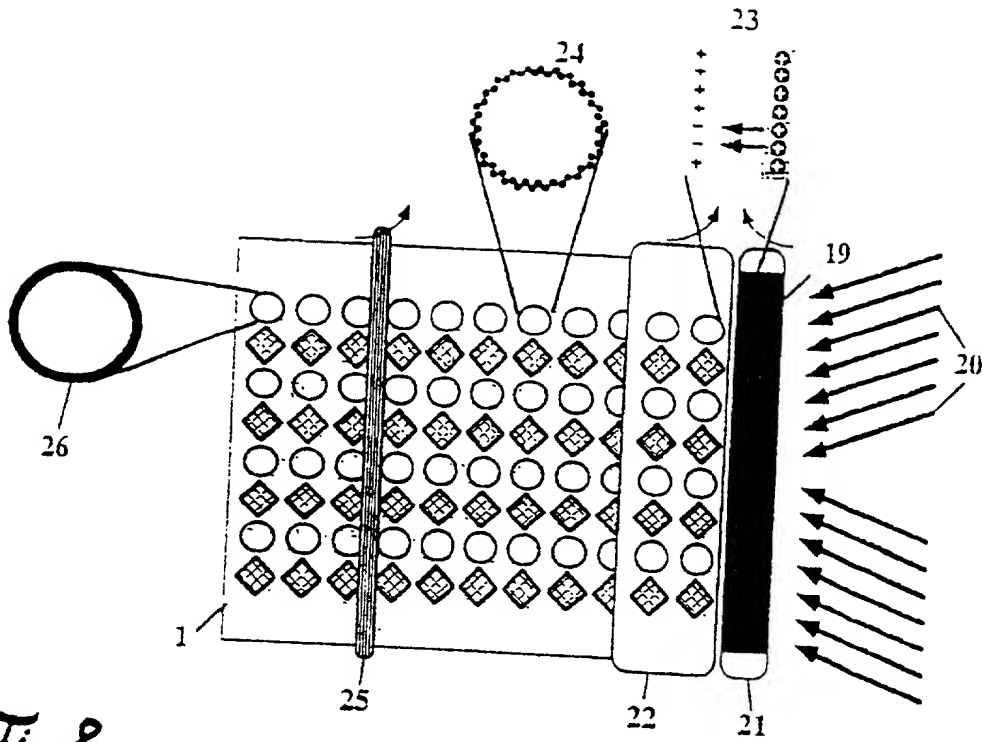


Fig. 8

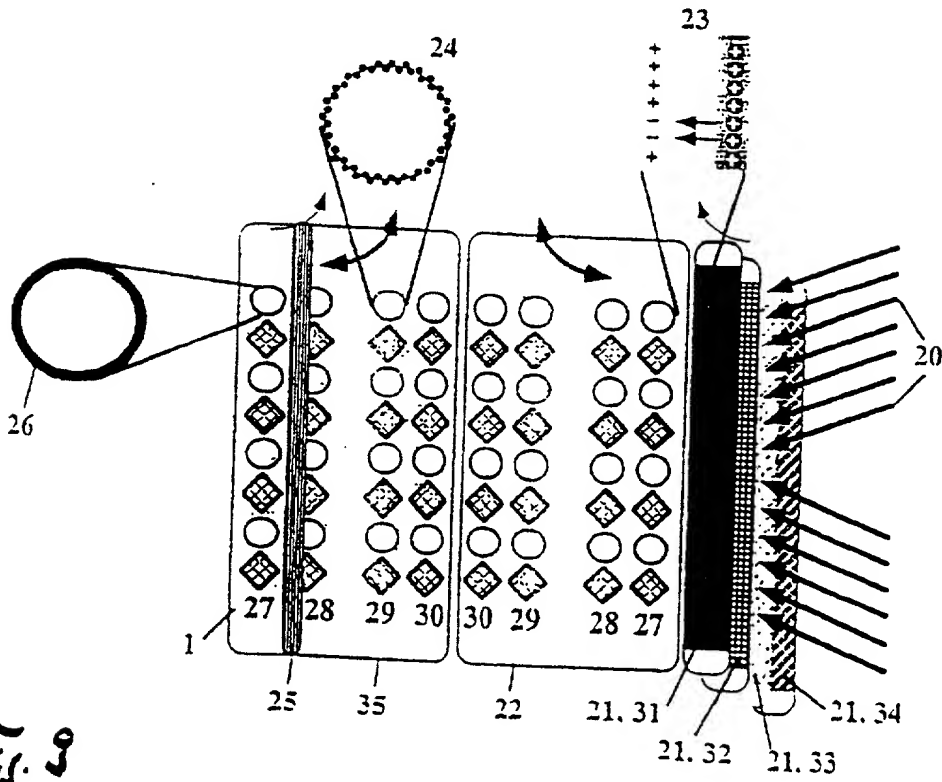
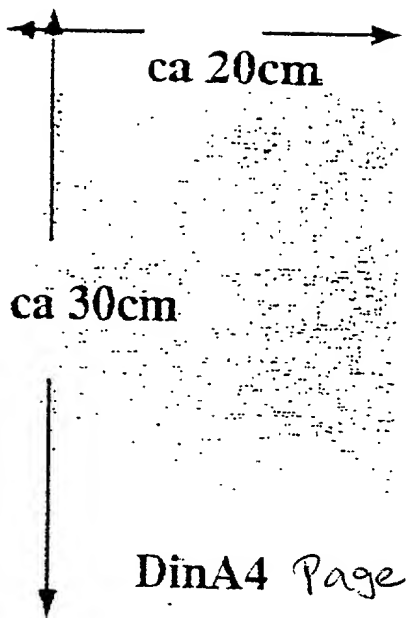


Fig. 9

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600 dpi = 600 dots per inch

600 dpi = ca 1 dot all 40 μ m

1.200 dpi = ca 1 dot all 20 μ m

2.400 dpi = ca 1 dot all 10 μ m

4.800 dpi = ca 1 dot all 5 μ m

Dots per DinA4 Page:

600 dpi = ca 5.000 x 7.500 = ca 30 millions dots

1.200 dpi = ca 10.000 x 15.000 = ca 125 millions dots

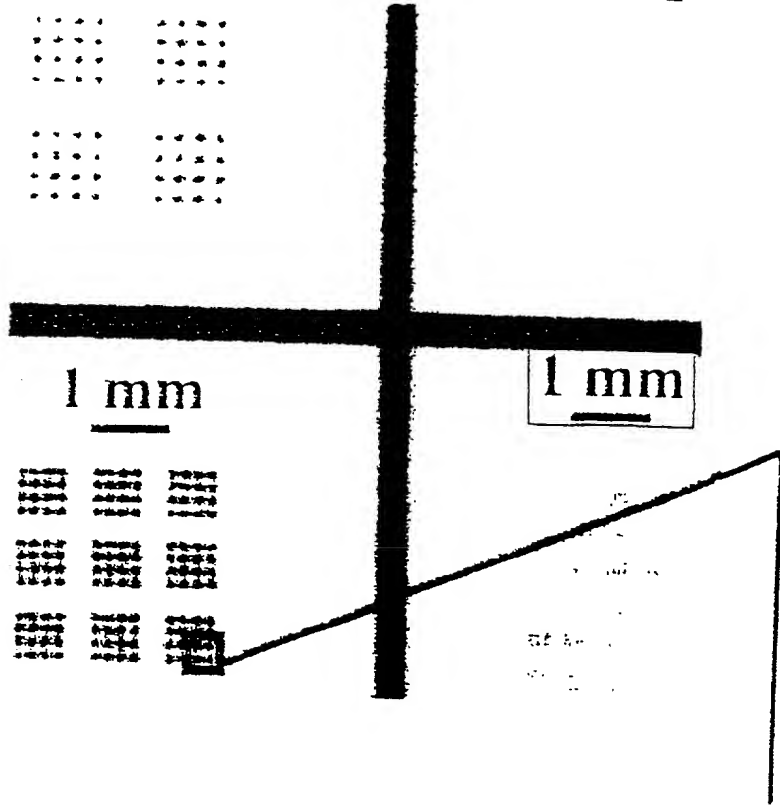
2.400 dpi = ca 20.000 x 30.000 = ca 500 millions dots

4.800 dpi = ca 40.000 x 60.000 = ca 2 milliards dots

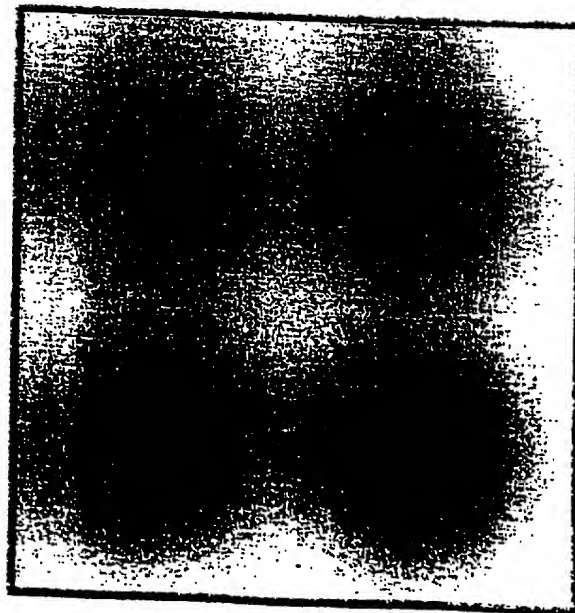
Fig. 10

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Laser Printer with 600dpi



Scanner

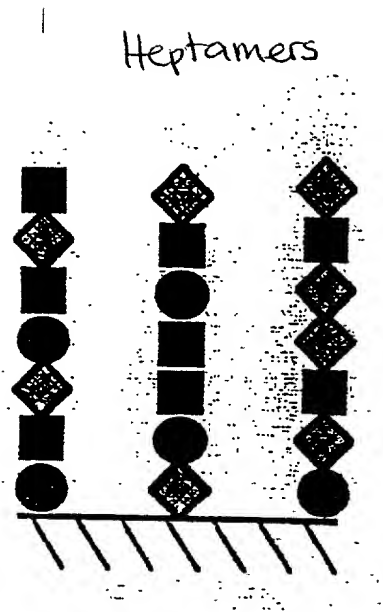


50 μ m

Fig. 11

0980666-051301
T0E190"88908860

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$20^1 = 20$ different amino acids

$20^2 = 400$ different dipeptides

$20^3 = 8.000$ different tripeptides

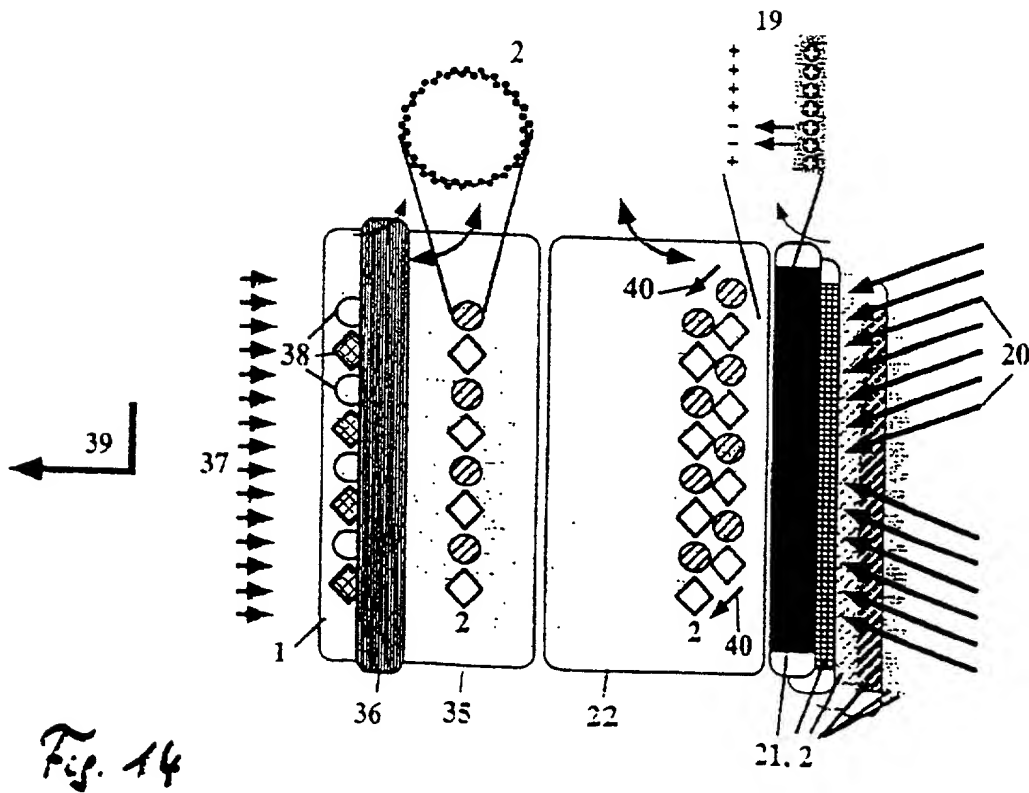
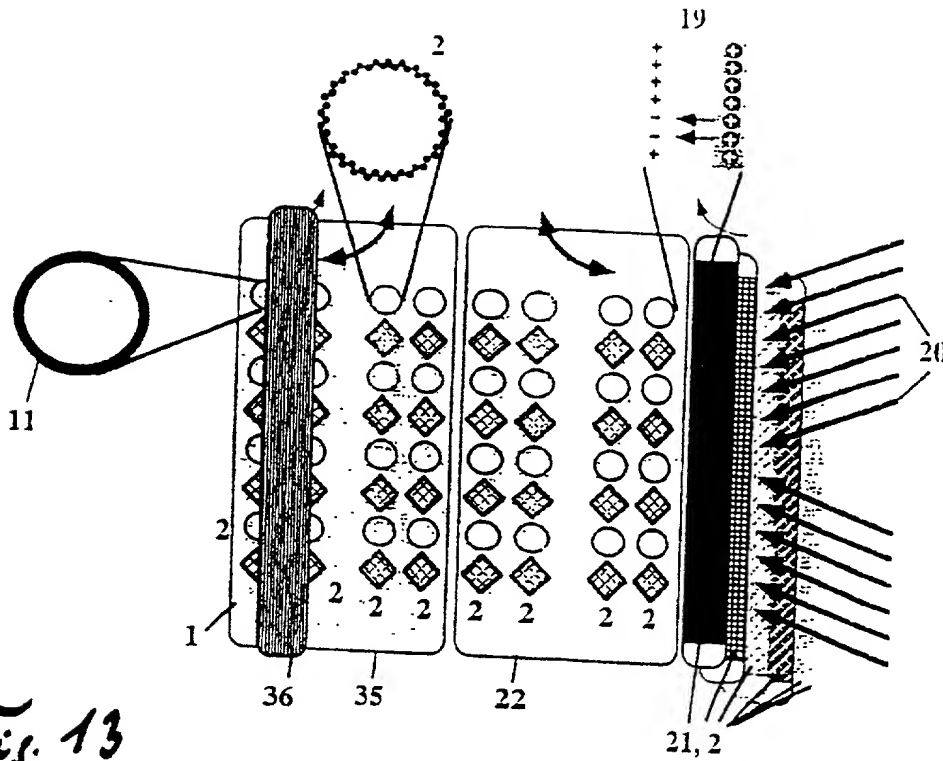
$20^4 = 160.000$ different tetrapeptides

$20^5 = 3,2$ millions different pentapeptides

$20^6 = 64$ millions different hexapeptides

$20^7 = 1.280$ millions different heptapeptides

Fig. 12



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complete tripeptide library:

$= 20^3 = 8.000$ different peptide



complete tetrapeptide library:

$= 20^4 = 160.000$ different peptide



complete pentapeptide library:

$= 20^5 = 3,2$ millions different peptide



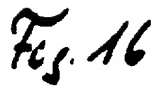
complete hexapeptide library:

$= 20^6 = 64$ millions different peptide

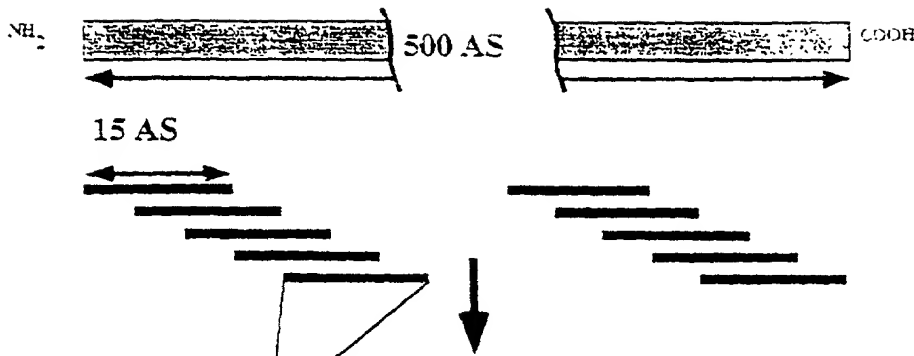
N = set amino acid position

X = Mixture of 20 different amino acid

Fig. 15



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Gene1
Gene2
Gene3
Gene4
Gene5

Required peptides per Gene (ca 500 AS):
= ca 100 x 15mere (per 5 AS added)

Number of human Genes:
= ca 100.000

Required peptides to cover all Genes:
= 100 x 100.000 = ca 10 millions

Fig. 17

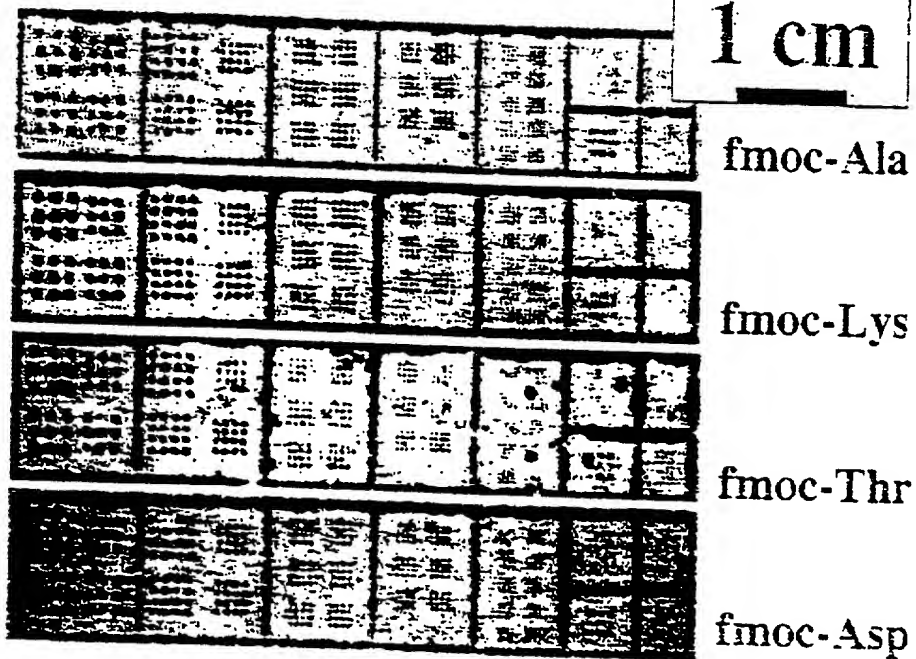
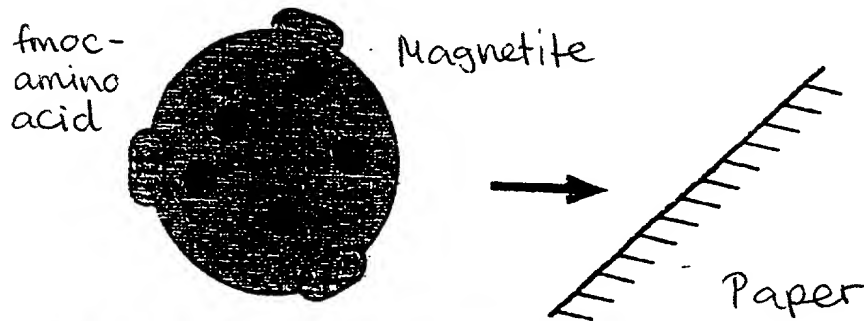
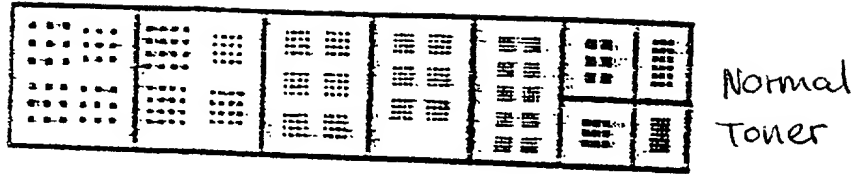
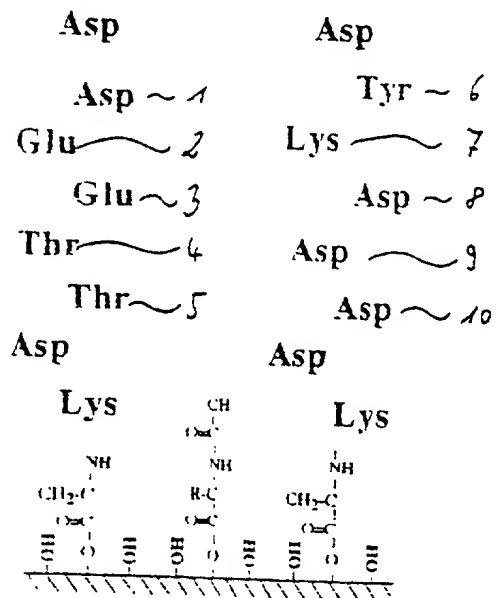


Fig. 19

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A

synthetic peptides



B

Front side



Back side

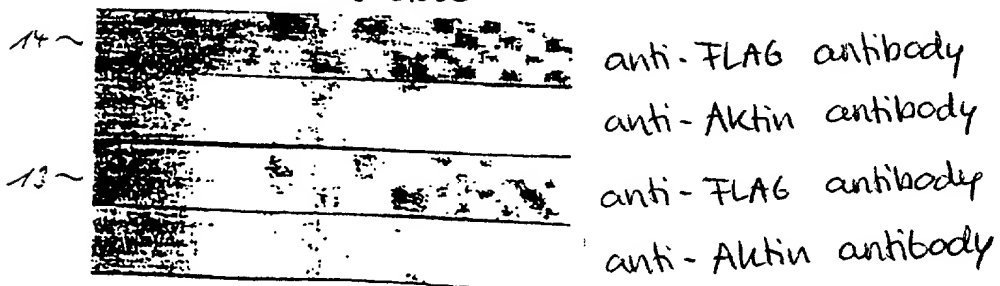


Fig. 20

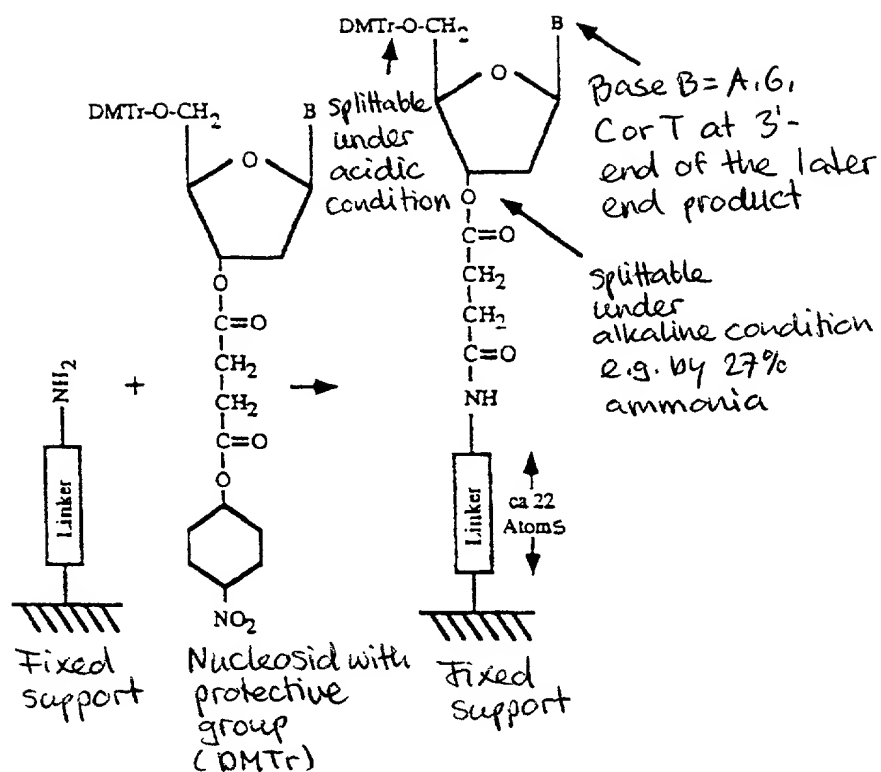
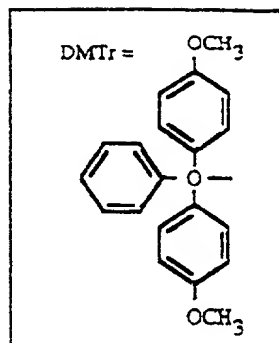
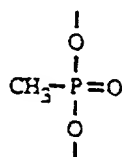
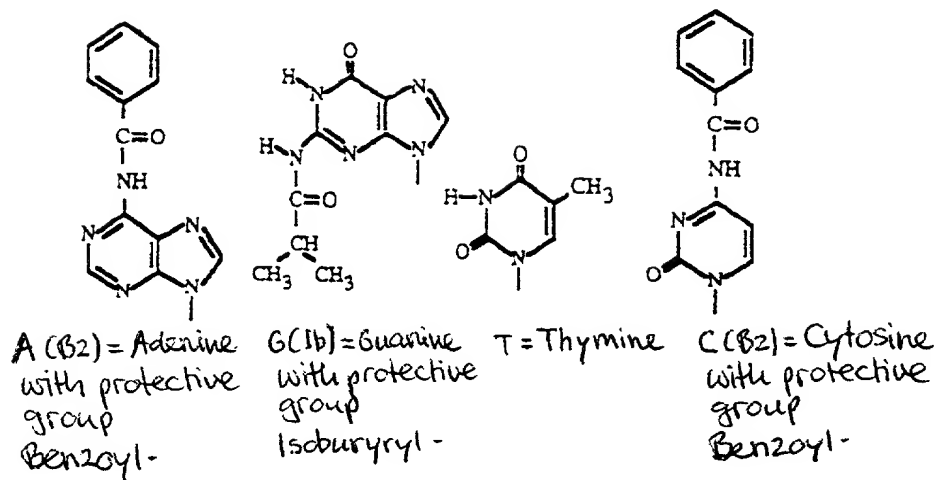
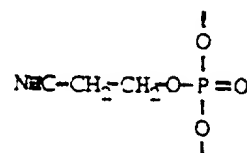


Fig. 21

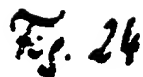
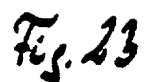


Phosphorus group with protective group Methoxy-



Phosphorus group with protective group Beta-cyanoethyl-

Fig. 22



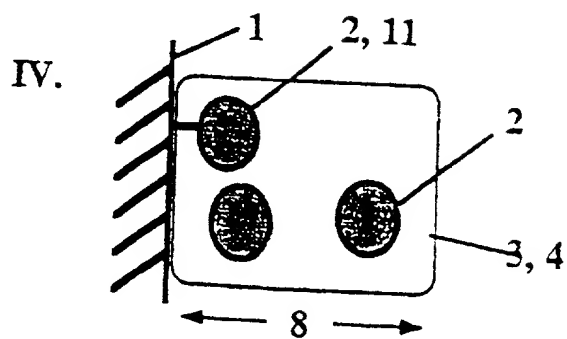
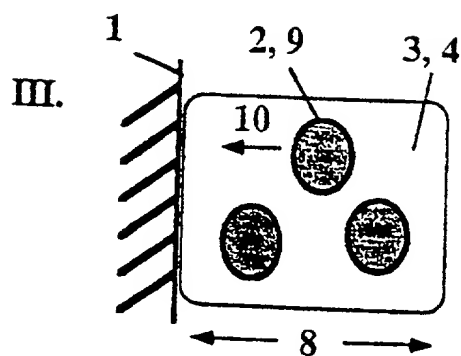
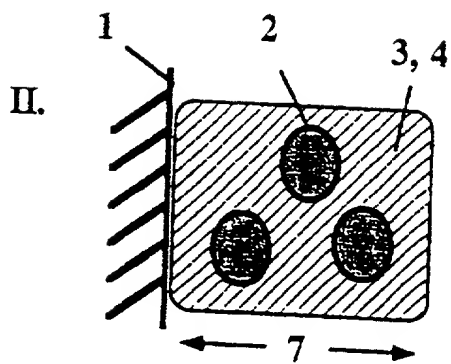
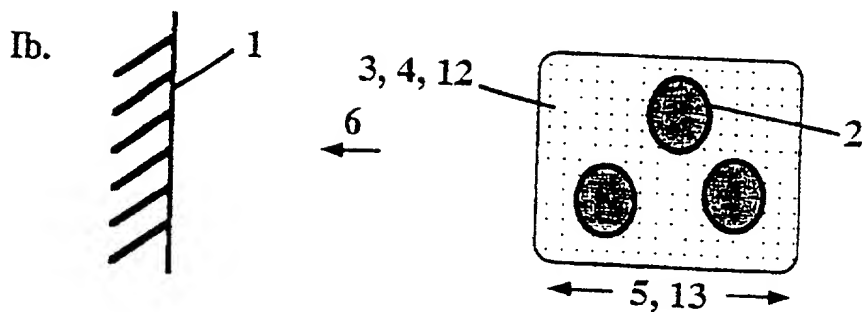
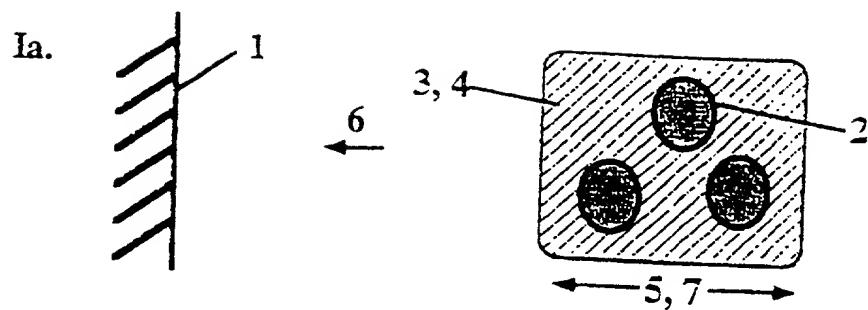


Fig. 25